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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,269	03/03/2004	Hyun-Jei Chung	1568.1086	8941
49455 STEIN MCEW	7590 11/20/200 E N, LLP	EXAMINER		
1400 EYE STR		HODGE, ROBERT W		
SUITE 300 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1795	
			NOTIFICATION DATE	DELIVERY MODE
			11/20/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptomail@smiplaw.com

	Application No.	Applicant(s)				
	10/791,269	CHUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	ROBERT HODGE	1795				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06</u>	October 2009					
	nis action is non-final.					
7	-					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1,2,8 and 19 is/are pending in the a 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,8 and 19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/13/09.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/6/09 has been entered.

Response to Arguments

Applicant's arguments filed 10/6/09 have been fully considered but they are not persuasive. Applicants state that element 300 is not a sealing surface but then further state that element 300 is used to seal therefore applicants contradict their own argument. Applicants further state that the electrode tabs "appear" to be bent more than once but provide no evidence to support said allegation. Applicants also state that a protection circuit case is taught and not a protection circuit board. The purpose of the element 300 of Jeong as applicants acknowledge is to seal and therefore element 300 reads on a sealing surface. It is quite clear from the drawings used in the grounds of rejection that the tabs are only bent once. And since the purpose of the protection circuit case is to house the protection circuitry (i.e. a board with circuits on it) and since applicants have chosen to use open claim language, more may be present in the prior art and still read on the claims as recited. Therefore the rejections will be maintained.

Application/Control Number: 10/791,269 Page 3

Art Unit: 1795

Claim Rejections - 35 USC § 102

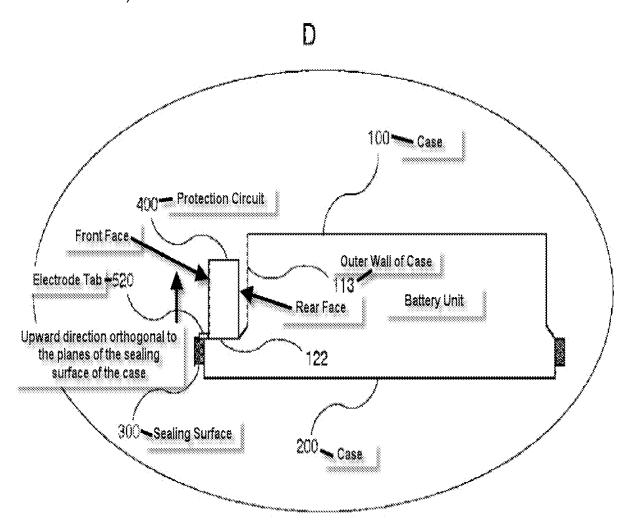
The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 2 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by KR 2002-0074550 hereinafter Jeong.

As seen in the cross-section D of figure 4 Jeong teaches a pouch-type lithium secondary battery comprising: a battery unit comprising: a positive electrode plate, a separator, and a negative electrode plate, wherein the separator is disposed between the positive and negative electrode plates; electrode tabs 510 and 520 extending from the positive and negative electrode plates of the battery unit; a case 100 and 200 having a space to accommodate the battery unit and a sealing surface 300 formed along the periphery of the space, a protection circuit board 400 having a front surface and an opposing rear surface and comprising electrode terminals disposed on the front surface, which are directly connected to the electrode tabs which extend through the case and are bent only once at a substantially right angle with respect to the planes of the sealing surfaces at a predetermined length in a thickness direction of the case without extending beyond a thickness of the case, wherein the protection circuit board is disposed between an outer wall of the case and the bent electrode tabs, wherein the electrode tabs are disposed parallel to the outer wall of the case in an upright position and are perpendicular to a contact surface at which the sealing surface is contacted and the electrode tabs connect to the protection circuit board on a side opposite to the outer

Art Unit: 1795

wall of the case (pages 4 and 5 of the provided English machine translation and as illustrated below).



Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 2, 8 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' Admitted Prior Art hereinafter AAPA.

As seen in figures 1 and 2 and described in paragraphs [0003]-[0015] of the instant specification, AAPA teaches a pouch type lithium secondary battery 10 comprising a battery unit 11 comprising a positive electrode plate 13, a negative electrode plate 14, a separator 15 disposed between the positive and negative electrode plates, electrode tabs 16 and 17 extending from the respective positive and negative electrode plates, a case 12 having space 12a to accommodate the battery unit, a sealing surface 12b along the periphery of the space, a protection circuit board 100 having a front and rear surface with electrode terminals 101 and 102 that are directly electrically connected to the electrode tabs, the protection circuit board is disposed in an approximately upward position with respect to the planes of the sealing surface of the case such that the rear surface faces the battery unit and the front surface faces away from the battery unit, wherein portions of each of the electrode tabs extend outside the case and are bent in an upward position with respect to a plane of the sealing surface, wherein the electrode tabs are bent at a predetermined length from a leading edge of the sealing surface in a thickness direction of the case, the electrode tabs further comprise insulating tape 18 between the electrode tabs and the sealing surface such that the insulating tape is wrapped around the portions of the electrode tabs bent from a leading edge of the sealing surface.

AAPA teaches the claimed invention except for bending the electrode tabs only once at a substantially right angle. It is noted that the orientation of the tabs will not effect the operation of the battery as a whole because the tabs will still be connected to the protection circuit board regardless of how they are bent and therefore it would have

been obvious to one having ordinary skill in the art to bend the tabs only once at a substantially right angle since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jeong as applied to claim 1 above, and further in view of Applicants' Admitted Prior Art hereinafter AAPA.

Jeong does not teach insulating tape around the electrode tabs.

AAPA as discussed above is incorporated herein.

At the time of the invention it would have been obvious to one having ordinary skill in the art to wrap insulating tape around the electrode tabs of Jeong as taught by AAPA in order to increase the sealing efficiency of the battery. If a technique has been used to improve one device (wrapping insulating tape around the electrode tabs), and a person of ordinary skill in the art would recognize that it would improve similar devices in the same way (increasing the sealing efficiency of the battery), using the technique is obvious unless its actual application is beyond his or her skill. See MPEP 2141 (III) Rationale C, KSR v. Teleflex (Supreme Court 2007).

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 10/13/09 was filed after the mailing date of the Final Office Action on 7/7/09. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Application/Control Number: 10/791,269 Page 7

Art Unit: 1795

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT HODGE whose telephone number is (571)272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Basia Ridley can be reached on (571) 272-1453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert Hodge/ Primary Examiner, Art Unit 1795